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AGRICULTURE IN THE U.S. AND USSR

A Statistical Comparison

U. S. DEPT. OF AGRICULTURE
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OCT 12 1964

C & R-PREP.

XV analysis
26 East European Branch
26 Regional Analysis Division
26 Economic Research Service. + 26

2 U.S. Department of Agriculture. + 2 a
April, 1964

Table 1.--Agricultural resources

Item	Year	Unit	United States	Soviet Union	U.S.S.R. as percent United States
Population.....	7/1/62	Millions	189.3	224.8	119
Civilian labor force (work experience).....	1962	do.	1/82.0	2/115.0	152
Annual average employment.....	do.	do.	3/67.8	4/99.4	146
Agricultural labor force (work experience).....	do.	do.	5/7.2	6/47.0	653
Annual average employment in agriculture 4/.....	do.	do.	5.2	36.7	706
Percent farm of total labor force (work experience).....	do.	Percent	8.2	40.8	--
Percent farm employment of total (annual average).....	do.	do.	7.6	37.0	--
Sown crop land.....	1963	Mil. acres	7/309	8/539	174
Sown crop land per capita.....	do.	Acres	1.6	2.4	150
Tractors on farms.....	1/1/63	Thousands	9/5,170	10/1,329	26
Motor trucks on farms.....	do.	do.	9/2,900	10/875	30
Grain combines on farms.....	do.	do.	9/1,020	10/520	51
Agricultural consumption of electricity 11/.....	1960	Bil. kwh.	31.7	9	28
Primary commercial fertilizer consumption in terms of available plant nutrients:					
Total.....	1962	1,000 s.tons	9/8,400	10/3,369	40
Per acre of sown area.....	do.	Pounds	56	13	23

1/ As defined by the Bureau of Labor Statistics "work experience" includes all persons who worked one hour or more during the year.

2/ United States Department of Agriculture (USDA) estimate based on Soviet census of 1959.

3/ Statistical Abstract of the United States 1963, p. 223, (household survey estimates of the Bureau of Labor Statistics.)

4/ Estimate of the U.S. Census Bureau. For methodology and comparability see "Employment" in the U.S.S.R.: Comparative U.S.S.R.-U.S. Data" by M. Weitzman, M. Feshbach, and L. Kulchyska in Dimensions of Soviet Economic Power, Joint Economic Committee, Congress of the United States, December 1962, p. 649.

5/ Persons who worked more than one hour during the year.

(Continued)

Table 1. (Continued).

- 6/ Based on Soviet census of 1959, persons employed in agriculture including persons working on their own private plots.
- 7/ Crop Production, 1963 Annual Summary, Statistical Reporting Service, USDA, p. 6. Area of 59 major crops planted or grown.
- 8/ Pravda, July 20, 1963 (mid-year plan fulfillment).
- 9/ Changes in Farm Production and Efficiency, A Summary Report 1963, Statistical Bulletin No. 233, USDA.
- 10/ Narodnoe khozyaistvo SSSR v 1962 godu, Moscow 1963.
- 11/ Agriculture in the United States and the Soviet Union, ERS-Foreign-53, Economic Research Service, USDA 1963.

Table 2.--Farm numbers and size

Farm numbers 1962:

All U.S. farms <u>1</u> /.....	3,688,000
Soviet collective farms <u>2</u> /.....	39,700
Soviet state farms <u>2</u> /.....	8,570

Farm size, average in 1962:

	Acres
Land area per U.S. farm <u>3</u> /.....	316
Sown area per U.S. farm.....	82
Land area per Soviet collective farm <u>2</u> /.....	15,404
Sown area per Soviet collective farm <u>2</u> /.....	7,010
Land area per Soviet state farm <u>2</u> /.....	77,588
Sown area per Soviet state farm <u>2</u> /.....	24,991

	Number
Workers per U.S. farm.....	1.5
Households per Soviet collective farm <u>2</u> /.....	404
Workers per Soviet state farm <u>2</u> /.....	804

1/ Farm Income Situation, FIS-191, Economic Research Service, USDA, July 1963, p. 42 and Number of Farms and Land in Farms, Statistical Reporting Service, USDA, February 23, 1962. In 1959 slightly more than half of all U.S. farms had sales of over \$2,500. Farms with sales of \$2,500 or more accounted for about 94 percent of all farm sales.

2/ Narodnoe khozyaistvo SSSR v 1962 godu. Does not include private plots of individuals which account for about 3-4 percent of sown area and a much larger percentage of livestock. These plots account for about 1/3 of total agricultural production.

3/ Land area per U.S. farm with sales of more than \$2,500 averaged slightly above 400 acres in 1959.

Table 3.--Crop acreage, 1962

Crop	: United : States <u>1/</u> :	Soviet Union <u>2/</u> :	:U.S.S.R. as percent : of United States
	: Thousands : of acres	Thousands of acres	Percent
Corn for grain.....	56,609	17,297	31
Wheat.....	43,541	166,545	383
Rye.....	1,987	41,760	2,102
Oats.....	22,675	17,049	75
Barley.....	12,430	35,335	284
Grain sorghum.....	11,536	(3)	--
Rice.....	1,773	247	13
Cotton, lint.....	15,569	5,906	38
Soybeans for beans.....	27,604	1,964	7
Sunflowers.....	(3)	10,848	--
Peanuts, picked and threshed.....	1,412	(3)	--
Flaxseed.....	2,808	4,200	150
Hemp.....	(3)	730	--
Sugar beets.....	1,103	7,833	710
Sugarcane, for sugar and seed.....	512	(3)	--
Tobacco.....	1,225	4/255	21
Makhorka.....	(3)	4/54	--
Potatoes.....	1,376	21,498	1,562
Sweet potatoes.....	224	(3)	--
Vegetables <u>5/</u>	3,449	3,563	103
Fruits and berries, including	:		
citrus <u>6/</u>	2,639	3,259	123
Citrus.....	853	(3)	--
Tea.....	(3)	1,628	--
Hay, all.....	67,646	(3)	--

1/ Area harvested. Crop Production, 1963 Annual Summary, SRS, USDA.

2/ Official Soviet data: Narodnoe khozyaistvo SSSR, v 1962 godu.

Reported as sown area but actually closer to U.S. area harvested concept due to exclusion of winterkill and other crops written off.

3/ Not available.

4/ USDA estimate.

5/ U.S.: commercial acreage only. U.S.S.R.; excluding area sown for seed.

6/ U.S.: excludes berries.

Table 4.--Yields per acre of major crops, 1962

Crops	Unit per acre	United States <u>1/</u>	Soviet Union <u>2/</u>	U.S.S.R. as percent of United States
Corn for grain.....	Bushel.....	64.2	22.3	35
Wheat.....	do.	25.1	12.0	48
Rye.....	do.	20.5	12.9	63
Oats.....	do.	45.0	22.9	51
Barley.....	do.	35.1	20.4	58
Grain sorghum.....	do.	44.2	(3)	--
Rice.....	Pound.....	3,726	2,412	65
Cotton, lint <u>4/</u>	do.	457	545	119
Soybeans for grain..	Bushel.....	24.2	6.4	26
Sunflowerseeds.....	Pound.....	(3)	894	--
Flaxseed.....	Bushel.....	11.5	4.0	35
Sugar beets.....	Tons.....	16.5	6.6	40
Tobacco.....	Pound.....	1,890	882	47
Makhorka.....	do.	(3)	1,222	--
Potatoes.....	Hundredweight..	193.8	63.5	33

1/ Crop Production, 1963 Annual Summary, SRS, USDA.

2/ Calculated from tables 3 and 5.

3/ Not available.

4/ All U.S.S.R. cotton irrigated, only 25 to 30 percent U.S. cotton irrigated.

Table 5.-Crop production, 1962

Crop	Unit	United States 1/	Soviet Union 2/	U.S.S.R. as percent of United States
Corn for grain.....	1,000 bu.	3,636,673	3/385,806	11
Wheat.....	do.	1,093,667	3/2,000,000	183
Rye.....	do.	40,803	3/539,971	1,323
Oats.....	do.	1,020,371	3/385,806	38
Barley.....	do.	436,448	3/719,891	165
Grain sorghum.....	do.	509,685	(4)	--
Rice, rough.....	1,000 tons ..	3,302	298	9
Cotton, ginned.....	1,000 bales..	14,867	6,715	45
Soybeans for beans.....	1,000 bu.	669,211	3/12,566	2
Sunflower seed.....	1,000 tons....	(4)	3/4,850	--
Peanuts, picked and threshed.....	do.	905	(4)	--
Flaxseed.....	1,000 bu.	32,230	3/16,800	52
Sugar beets.....	1,000 tons ..	18,254	5/52,029	285
Sugarcane, for sugar and seed.....	do.	20,037	(4)	--
Sugar production.....	do.	6/5,572	6,600	118
Tobacco.....	1,000 lbs.	2,060,992	224,869	11
Makhorka.....	do.	(4)	66,138	--
Fiber flax.....	1,000 tons ..	(4)	435	--
Potatoes.....	1,000 Cwt.	266,703	3/1,364,647	511
Sweetpotatoes.....	do.	19,362	(4)	--
Vegetables.....	1,000 tons....	7/20,075	17,637	87
Citrus.....	do.	6,478	(4)	--
Grapes.....	do.	3,239	3,276	--
Total fruits (including citrus, grapes and berries).....	do.	8/16,646	6,590	40
Hay, all kinds.....	do.	121,566	9/85,097	70

1/ Crop production, 1963 Annual Summary, SRS, USDA. 2/ Narodnoe khozyaistvo SSSR v 1962 godu unless otherwise noted. 3/ USDA estimates. 4/ Not available. 5/ For factory sugar production only. 6/ Includes production from continental beet and cane and from Hawaii, Puerto Rico and U.S. Virgin Islands. For U.S.S.R. includes sugar produced from domestic beets only. 7/ U.S. commercial vegetable production only. 8/ For U.S. includes 20 major fruits exclusive of most berries. 9/ Hay and green feed calculated in terms of hay, including natural hay harvested by individual farmers.

Table 6.--Livestock numbers, 1963 1/

Kind	: United : States <u>2/</u>	: Soviet : Union <u>3/</u>	: U.S.S.R. as percent : of United States
All cattle.....	103.7	87.0	84
Cows <u>4/</u>	<u>5/</u> 18.7	<u>6/</u> 38.0	203
Hogs.....	58.7	70.0	119
Sheep.....	30.2	139.7	463
Horses.....	<u>7/</u> 3.1	9.1	294
Poultry.....	<u>8/</u> 371.8	<u>9/</u> 550.4	148

- 1/ Beginning of year.
2/ Livestock and Poultry Inventory, SRS, USDA, February 13, 1963.
3/ Official Soviet figure: Narodnoe khozyaistvo SSSR v 1962 godu.
4/ Included in all cattle.
5/ Two years old and for milk.
6/ All cows.
7/ 1961. USDA horse estimates discontinued after 1961.
8/ Chickens and turkeys only.
9/ All poultry.

Table 7.--Production of livestock commodities, 1962

Commodity	: Units	: United : States <u>1/</u>	: Soviet : Union	: U.S.S.R. as : percent of : United States
Beef and veal.....	Million lbs.:	16,311	<u>3/</u> 6,184	38
Pork.....	do.	11,841	<u>3/</u> 6,614	56
Mutton, lamb and goat.....	do.	809	<u>3/</u> 1,940	240
Poultry meat.....	do.	6,938	1,760	25
Lard.....	do.	2,480	<u>3/</u> 1,240	--
Margarine and shortening..	do.	4,158	1,201	--
Tallow and grease.....	do.	4,029	<u>3/</u> 445	--
Milk (cows).....	do.	125,927	<u>3/</u> 120,371	96
Butter.....	do.	1,576	2,072	131
Eggs.....	Billions.....	63.0	30.1	48
Wool.....	Million lbs.:	249	371	149

- 1/ USDA figures.
2/ Unless otherwise noted, Narodnoe khozyaistvo SSSR v 1962 godu.
3/ USDA estimates.

Table 8.--Production, sown area and yields of major grains, international trade in grains, and selected livestock numbers, average 1955-59

Item	United States 1/	Soviet Union 2/	U.S.S.R. as percent of United States
..... <u>Production</u>			
	<u>Million bushels</u>		<u>Percent</u>
Wheat.....	1,095	1,910	174
Rye.....	27	599	2,214
Barley.....	424	441	104
Oats.....	1,278	828	65
Corn for grain.....	3,597	297	8
..... <u>Sown area 3/</u>			
	<u>1,000 acres</u>		<u>Percent</u>
Wheat.....	49,128	158,722	323
Rye.....	1,729	44,742	2,588
Barley.....	14,391	24,809	172
Oats.....	33,093	36,109	109
Corn.....	76,121	11,853	15
..... <u>Yields</u>			
	<u>Bushels/acre</u>		<u>Percent</u>
Wheat.....	19.5	12.0	62
Rye.....	22.3	13.4	60
Barley.....	29.5	17.8	60
Oats.....	38.6	22.9	59
Corn.....	47.3	25.0	53
... <u>International trade in grain</u>			
	<u>1,000 M. tons</u>		
Exports.....	4/19,542	5/5,268	
Imports.....	6/1,123	5/398	
..... <u>Livestock numbers</u>			
	<u>Million head</u>		<u>Percent</u>
Cattle.....	6/94.0	7/62.9	67
Hogs.....	6/53.4	7/39.9	75

1/ Agricultural Statistics 1962, USDA, 1963.

2/ USDA estimates, for production, area and yields.

3/ U.S. harvested area, for the Soviet Union see footnote 2 table 3.

4/ U.S. Foreign Agricultural Trade by Commodities, Calendar Year 1962,
Economic Research Service, USDA.

5/ Vneshnyaya trgovlya SSSR za 1955-1959 gody, Moscow, 1961.

6/ Agricultural Statistics, 1962, USDA.

7/ Narodnoe khozyaistvo SSSR v 1962 godu.

Table 9.--Production, sown area and yields of major grains, international trade in grains, and selected livestock numbers, 1963

Item	United States <u>1/</u>	Soviet Union <u>2/</u>	U.S.S.R. as percent of United States
..... <u>Production</u>			
	<u>Million bushels</u>		<u>Percent</u>
Wheat.....	1,138	1,470	129
Rye.....	29	472	1,602
Barley.....	400	680	170
Oats.....	981	261	27
Corn for grain.....	4,081	386	9
..... <u>Sown area</u> <u>3/</u>			
	<u>1,000 acres</u>		<u>Percent</u>
Wheat.....	45,256	163,086	360
Rye.....	1,611	44,972	2,791
Barley.....	11,538	45,714	396
Oats.....	21,757	14,826	68
Corn.....	60,654	17,297	29
..... <u>Yields</u>			
	<u>Bushels/acre</u>		<u>Percent</u>
Wheat.....	25.1	9.0	36
Rye.....	18.3	10.5	57
Barley.....	34.7	14.9	43
Oats.....	45.1	18.1	40
Corn.....	67.3	22.3	33
... <u>International trade in grain</u>			
	<u>1,000 M. tons (estimated 1963-64)</u>		
Exports.....	4/41,277	5/3,000	
Imports.....	4/471	6/11,000	
..... <u>Livestock numbers</u>			
	<u>Million head (January 1, 1964)</u>		
Cattle.....	7/106.8	8/85.3	80
Hogs.....	7/56.2	8/40.7	69

1/ Crop Production, 1963, Annual Summary, for production, area and yields of grain.

2/ USDA estimates, for production, area and yields.

3/ U.S. harvested area, for the Soviet Union see footnote 2 table 3.

4/ Preliminary estimates, Foreign Agricultural Service, USDA.

5/ USDA preliminary estimate.

6/ Approximate amount of known Soviet import commitments as of January 20, 1964.

7/ Preliminary estimates, Economic Research Service, USDA.

8/ Pravda, January 24, 1964. Pig numbers on January 1, 1963, were reported to total 70.0 million (see table 6).



